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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,384	04/12/2004	Jin Kook Jung	8021-224 (SS-19575-US)	2837
22150	7590	10/11/2007	EXAMINER	
F. CHAU & ASSOCIATES, LLC			SANDVIK, BENJAMIN P	
130 WOODBURY ROAD			ART UNIT	PAPER NUMBER
WOODBURY, NY 11797			2826	
MAIL DATE		DELIVERY MODE		
10/11/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/822,384	JUNG ET AL.	
	Examiner	Art Unit	
	Ben P. Sandvik	2826	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 21 September 2007.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-4,23 and 24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-4,23 and 24 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Response to Arguments***

Applicant's arguments with respect to claims 1 and 23 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1- 4, 23, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al (U.S. PG Pub #2002/0175419).

With respect to **claim 1**, Wang teaches a semiconductor substrate (Paragraph 5); dummy patterns for a chemical mechanical polishing (CMP) method formed in a uniform pattern over the semiconductor substrate (Fig. 12B, 700 and Paragraph 7); and marking patterns that are formed over the semiconductor substrate to correspond to predetermined groups of the dummy patterns (Fig. 12B, 1200), wherein at least one dummy pattern is formed between two marking patterns; and wherein a number of the dummy patterns is substantially greater than a number of the marking patterns.

With respect to **claim 2**, Wang teaches that the marking patterns (Fig. 12B, 1200) have a different shape from the dummy patterns (Fig. 12B, 700)

With respect to **claim 3**, Wang teaches that the marking patterns (Fig. 12B, 1200) have a different shape from the dummy patterns (Fig. 12B, 700).

With respect to **claim 4**, Wang teaches that the marking patterns (Fig. 12B, 1200) are smaller than the dummy patterns (Fig. 12B, 700).

With respect to **claim 23**, Wang teaches a semiconductor substrate (Paragraph 5); dummy patterns (Fig. 12B, 1200) for a chemical mechanical polishing (CMP) method (Paragraph 7) formed in a uniform pattern over the semiconductor substrate; and marking patterns that are formed over the semiconductor substrate to correspond to predetermined groups of the dummy patterns (Fig. 12B, 700); wherein the marking patterns surround at least a group of dummy patterns (Fig. 12B, in one example the leftmost dummy patterns 1200 are surrounded by the leftmost marking patterns 700); and wherein a size of the marking patterns is smaller than a size of the dummy patterns (the smaller width of 700 is smaller than the radius of 1200).

With respect to **claim 24**, Wang teaches a semiconductor substrate (Paragraph 5); dummy patterns for a chemical mechanical polishing (CMP) method formed in a uniform pattern over the semiconductor substrate (Fig. 12B, 700); and marking patterns that group predetermined plural numbers of the dummy patterns and are formed over the semiconductor substrate (Fig. 12B, 1200); wherein the marking patterns and the predetermined plural numbers of

the dummy patterns grouped by the marking patterns form a unit, which is repeated (Fig. 12B, in one example the marking patterns 1200 can be grouped with the outside corner dummy patterns 700).

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

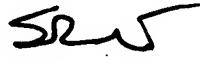
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ben P. Sandvik whose telephone number is (571) 272-8446. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on 571-272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bps

  
EVAN PERT  
PRIMARY EXAMINER